

## MARCONI, RADIO INVENTOR, DEAD IN ROME AT 63

Shy Scientist Who Made Voice Span World, Busy Until Death.

(Continued from Page One)

Signor Marconi who had been honored by all nations but was so shy that he was but a name to all except a few intimates, died of a heart attack at 3:45 a.m. (8:45 p.m. Monday, Indianapolis time). He was 63 years old.

Five hours after his death Premier Mussolini arrived alone at Marconi Palace, signed the visitors book, and went to the simple death chamber on the second floor where he prayed for 15 minutes.

The Vatican transmitted the news to Pope Pius at his summer palace at Castel Gandolfo. His Holiness was at mass and he immediately dedicated the services to the repose of Marconi's soul.

### Fear My End Is Near

Signor Marconi had been suffering heart attacks in increasing frequency and intensity since April. He became ill yesterday afternoon and retired early. At 3 a.m. in the morning he rang for his valet.

"I am very sorry," he said calmly, "but I am going to put you and my friends to considerable trouble. I fear my end is near. Will you please inform my wife?"

Mrs. Marconi was at Viareggio vacationing. Notified by telephone, she started at once for Rome by automobile, arriving at 7 a.m. The servant also summoned Marconi's friends, scientific collaborators, and a doctor. He died soon after the physician arrived.

But before he warned his valet, Marconi dictated a personal message to the only child of his second marriage, 7-year-old Eletra, who was with his mother, and whose birthday is today. He had two daughters and a son by his first marriage, the eldest of whom, Giulio, is in New York.

### Pope Orders Condolences

The Pope ordered his secretaries to telegraph condolences to the family, the Italian Government, and the Italian Academy. His condolences were of the thousands which began pouring in from all parts of the world soon after Marconi's death was announced.

The family decided to have the body taken this afternoon to the Italian Academy. There the public had opportunity to pay its respects to the inventor.

Religious ceremonies will be held in Rome at 6 p.m. tomorrow and a national funeral at Bologna later. The body will lie in state at Galatea Hall of the Italian Academy until tomorrow's ceremonies.

The public was permitted to file past the body beginning at 3 p.m. today.

The sculptor Attilio Selva, a member of the academy, made death mask.

It was understood that his body would be dressed in the uniform he used as president of the Royal Academy, and taken to the academy to lie in state until the funeral.

Signor Marconi had been honored perhaps beyond the measure of any of the other great men of his generation. His own country had elevated him to the nobility—he was the Marchese Guglielmo Marconi—he had been a recipient of the Nobel prize in physics, he had been decorated by a score of nations, his name had been taken into many languages as a noun synonym of radio, and scores of universities had given him honorary doctorates.

### Medal From Titanic Survivors

But most symbolic of all his honors was a gold medal presented by the survivors of the Titanic, all of whom were alive because of him. Before Marconi, the survivors of ship disasters floated on wreckage until they were picked up, alive or dead, perhaps after weeks, by a ship passing by chance. The Titanic was the first great ship to flash an SOS on Marconi's wireless, and since it he saved the lives of thousands of shipwrecked persons.

Since 1935 the scientist had been experimenting with micro-waves—tiny radio impulses so small that from peak to peak they had to be measured in centimeters.

By harnessing the penetrative force of these rays, he had hoped to eliminate many physical maladjustments of which surgery now is the only remedy, and to reduce the mortality of surgery. In wartime, he had hoped to use them to halt airplane and automobile motors and to direct wireless beam messages which could be picked up only by the intended receiver and not by an enemy.

Other men before him had been convinced that communication without wires was possible. Marconi changed their theories to practicalities. At the age of 27, he transmitted the first wireless message across the Atlantic. Later he helped develop the vacuum tube which made possible the wireless transmission of the human voice. He developed short wave transmission for great distances.

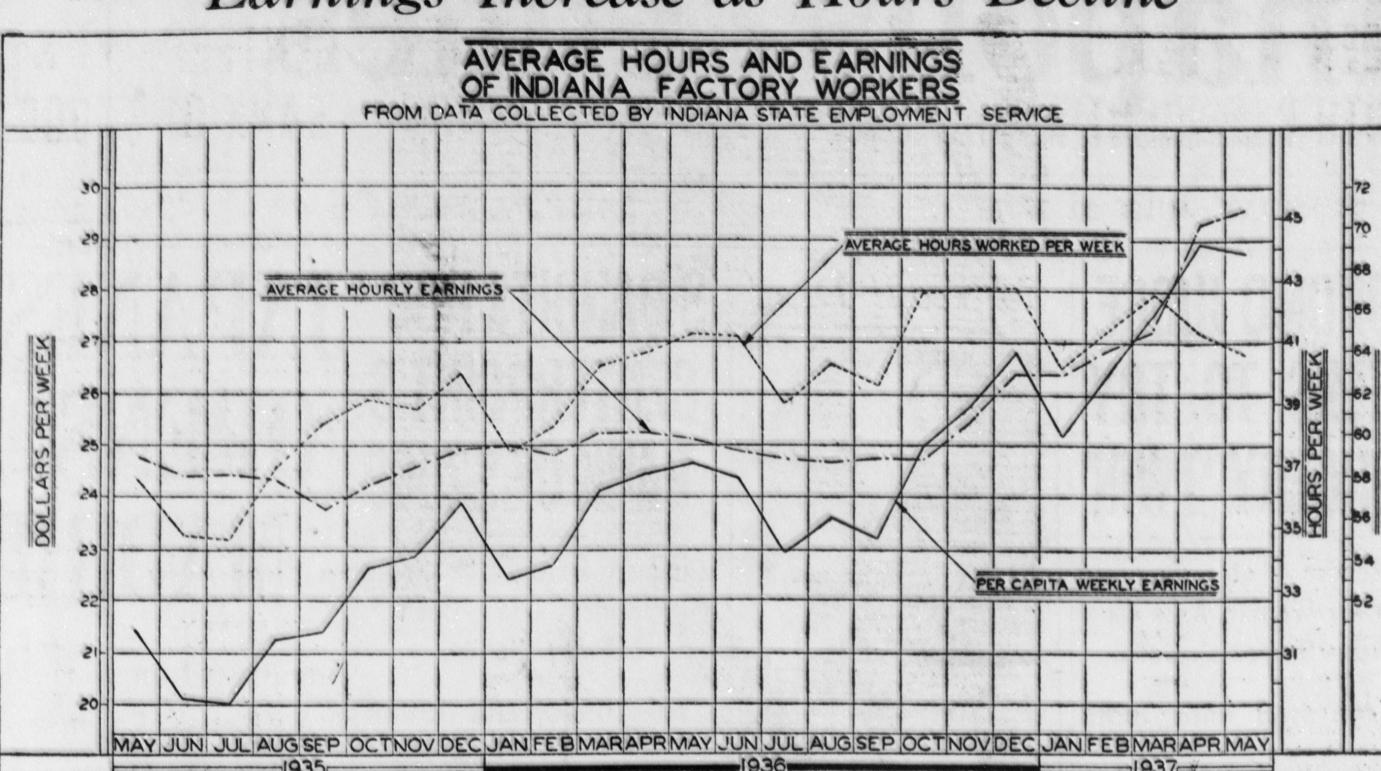
### Prized Edison's Words

Signor Marconi always regarded more highly than any of these honors, the praise of the late Thomas Edison after he announced that he had spanned the Atlantic by wireless. Many scientists doubted, but Edison said:

"If Marconi says it is true, it is true."

He was born in Bologna, April 25, 1874, the son of an Italian banker, Giuseppe Marconi, and an Anglo-Irish mother, Anna Jameson.

He early showed a fondness for



## BUREAU CITES UPWARD TREND

Weekly Wage Average Soars From \$20 to \$28.90 In 10-Month Period.

mathematics and science. He was educated in Florence, Bologna, Leghorn and in Great Britain. At the University of Bologna he had learned of strange things called "Hertzian waves." Edison could not understand what they were. Hertz, a German physicist, later declared they were electrical waves. Marconi learned at Bologna how to produce these strange waves—but what they were good for he did not know.

### Send Signals a Mile

He got the idea of using these Hertzian waves for communication while serving in the Italian army signal corps. His job was to maintain a mirror flashing Morse code dots and dashes to other soldiers a mile or so away.

One day the sky was cloudy and the heliograph could not function. He constructed a device to produce electrical discharges and another to receive them. He sent the signal a mile. Having demonstrated that signals could be sent for short distances, he decided they could be sent greater distances—perhaps to the ends of the earth.

He kept increasing the distance and the power, until transmission of 120 miles was practical. He offered his invention to the Italian Government. The Government was not interested.

Marconi turned then to England. He sent a message across the English Channel to convince the English. They had their postoffice department co-operate with him.

### Built \$250,000 Equipment

Marconi then decided to send a message across the Atlantic. Other scientists said it was impossible—that the curvature of the earth was a bar to wireless transmission for such a long distance.

Marconi and his assistants built \$250,000 worth of equipment. A sending station was set up at Poldi, England, and another on the bleak shores of Newfoundland.

It was agreed to send a series of 20 S's—three dots each in the Morse code—at a certain hour each day. Marconi and his assistants went to Newfoundland to receive the messages.

They took with them balloons and kites which were to carry high into the air a thin copper wire, to serve as an aerial. Marconi considered this more practical than building towers to support one.

### Success—After 5 Days

For six days prior to Dec. 12, 1901, Marconi had tried to fly the kite, but failed because of high winds. On the fourth day a kite was flown 600 feet into the air but no signals were heard. On the fifth day a balloon was blown away. On the sixth day—Dec. 12—another kite was flown. It, too, was blown away. Marconi was not discouraged. He sent up another.

At 12:30 p.m. Marconi heard three faint clicks in the telephone receiver, standing out clearly from the disturbances caused by atmospheric electricity. He heard the signals several times. Then he turned the instrument over to his assistant, G. H. Kemp, who also heard them. The Atlantic had been spanned by a 50-kilowatt spark set.

Marconi listened again the next day. The signals were received again and he announced the fact to the world.

From then on development of radio was rapid. Other scientists, convinced communication without wires was practical, moved into the field.

### PEACE FOR MCNEIL PRISON

LOS ANGELES, July 20.—John W. Hunt, the white convert to Father Divine's religious cult, was sent to the McNeil Island Federal Prison to serve three years for a Mann act violation. Hunt hopes to spread Father Divine's teachings in the prison.

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FOR DIGESTION'S SAKE—SMOKE CAMELS

## Bike Levy Law Repealer Is Defeated by Council; Antirabies Bill Is Tabled

Approximately 5000 bicycles owners today had lost their fight for repeal of the city bicycle licensing ordinance and approximately 20,000 cyclists are faced with payment of the \$1.25 tag fee.

The proposed repealer was voted down by the City Council last night, 5 to 3, despite presentation of a petition bearing names of 5000 protestants. Only one objector spoke on the Council floor last night, however.

"The attitude of boys is that it's a gyp," said A. C. Kamplain, 341 Harvard Place. He contended that youngsters' respect for law was at stake.

An administration measure, it had the solid support of the five Democrats while the three Republicans members voted in favor of repeal. They were Edward Kealing, William A. Oren and John A. Schumacher.

A proposed ordinance requiring vaccination of dogs against rabies before issuance of licenses was tabled after Bulldog Club officials protested.

Barber shops would be prohibited from operating before 8 a.m. and after 6 p.m., except on Saturdays and days preceding holidays, under proposal introduced by Adolph Fritz.

A proposed ordinance appropriate which would and allocate \$147,611.11 of gasoline tax funds was introduced, as was another which would name the first street north of Indiana Central Canal from Central Ave. to Park Ave., "62d Place."

Also passed were ordinances providing for the purchase of \$3,681.60 worth of canned goods and fruit juices for City Hospital; transfer certain taxi cab licenses to other owners, and one providing for a loaning zone at 430 E. Market St.

Left turns at several downtown and North Side intersections were banned by unanimous vote and one-and-one-half hour parking was created on certain streets.

Intersections where no left turns will be permitted at any time are: Pennsylvania and Washington Sts., Meridian and Washington Sts., Illinois and Washington Sts., 18th and Meridian Sts., Pennsylvania and Market Sts., Illinois and Delaware Sts., and 22d and Delaware Sts.

Rush Hour Restrictions

Left turns also are prohibited between 7 and 9 a.m. and 4:30 and 6 p.m. at:

Meridian and 22d Sts., Delaware and 25th Sts., Meridian and 30th Sts., and Meridian St. and Fall Creek Blvd., North Drive.

A temporary loan of \$650,000 was not discussed. He sent up another.

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## TROLLEY DRIVER HOLDUP VICTIM

Gives Up \$23 to Bandit; \$475 Jewelry Theft Reported.

A bandit who held up a trackless trolley operator last night, taking \$23 in cash and car tokens valued at \$5, was hunted by police today.

Howard Holden, 443 Christian

St., told police the holdup occurred at Montana St. and Roosevelt Ave. Mrs. Helen Rinchart, of 28 E. 16th St., Apt. 203, reported to police that jewelry valued at \$475 was taken from her apartment yesterday. She said the apartment was entered through the service door.

A 12-year-old youth was sent to the Detention Home yesterday after police arrested him and found all but \$5 of \$200 reported stolen yesterday morning from Ray Dudds, manager of a grocery at 5050 E. Michigan St.

MORGAN SAILS FOR ENGLAND  
By United Press

NY, July 20.—J. P. Morgan sailed for England today aboard his yacht Corsair.

## U. S. JOB SERVICE'S ROLLS SHOW DROP

By United Press  
WASHINGTON, July 20.—Secretary of Labor Frances Perkins had announced today that the number of persons registering for jobs with the U. S. Employment Service was smallest in the agency's history during June.

On June 30, the number actively registered was 5,016,014, 5.5 per cent fewer than at the end of May and 22.8 per cent fewer than in June, 1936. Jobs were found for 374,692 workers, of which 224,692 were in industry—the second largest number recorded for the service for one month.

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